

**IN THE CLAIMS**

The following is a complete listing of revised claims with a status identifier in parenthesis.

**LISTING OF CLAIMS**

1. (Currently Amended) A method for grouping cells comprising:  
generating a sum of weighted values associated with each cell within a wireless network,  
which represent a paging cost, and each edge between adjacent cells within the wireless network,  
which represent an updating cost, and grouping constraints; and  
assigning a cell to a group based on the weighted value sums.
2. (Previously Presented) The method as in claim 1 wherein the generation of  
the weighted value sums produces fractional values.
3. (Cancelled).
4. (Cancelled).
5. (Original) The method of claim 2 further comprising rounding the fractional  
values into integer values.
6. (Original) The method as in claim 5 further comprising rounding the  
fractional values using region growing.
7. (Previously Presented) The method as in claim 5 wherein rounding further  
comprises using a variable, where the variable equals:  
a first value, if elements  $i$  and  $j$  belong to different groups, or  
a second value, if  $i$  and  $j$  belong to the same group.
8. (Original) The method as in claim 7 wherein the first value equals 1 and the  
second value equals 0.

9. (Original) The method as in claim 1 wherein the group comprises a location area associated with one or more wireless networks.

10. (Original) The method as in claim 5 further comprising approximating costs associated with updating and paging operations of one or more wireless networks from the rounded values.

11. (Currently Amended) A method for grouping cells comprising:  
generating a sum of weighted values associated with each cell in a line within a wireless network, which represent a paging cost, and each edge between adjacent cells in a line within a wireless network, which represent an updating cost, and grouping constraints; and  
assigning a cell to a group based on the weighted value sums.

12. (Currently Amended) A computer readable medium for grouping cells operable to:  
generate a sum of weighted values associated with each cell within a wireless network, which represent a paging cost, and each edge between adjacent cells within a wireless network, which represent an updating cost, and grouping constraints; and  
assign a cell to a group based on the weighted value sums.

13. (Previously Presented) The computer readable medium as in claim 12 wherein the generation of the weighted value sums produces fractional values.

14. (Cancelled).

15. (Cancelled).

16. (Previously Presented) The computer readable medium of claim 13 further operable to round the fractional values into integer values.

17. (Previously Presented) The computer readable medium as in claim 16 further operable to round the fractional values using region growing.

18. (Previously Presented) The computer readable medium as in claim 16 further operable to round the fractional values using a variable, where the variable equals:

a first value, if elements  $i$  and  $j$  belong to different groups, or

a second value, if  $i$  and  $j$  belong to the same group.

19. (Previously Presented) The computer readable medium as in claim 18 wherein the first value equals 1 and the second value equals 0.

20. (Currently Amended) The computer readable medium as in claim 12 wherein the group comprises a location area associated with one or more wireless networks.

21. (Previously Presented) The computer readable medium as in claim 16 further operable to approximate costs associated with updating and paging operations of one or more wireless networks from the rounded values.

22. (Currently Amended) A computer readable medium for grouping cells operable to:

generate a sum of weighted values associated with each cell in a line within a wireless network, which represent a paging cost, and each edge between adjacent cells in a line within a wireless network, which represent an updating cost, and grouping constraints; and

assign a cell to a group based on the weighted value sums.